

DUPLISHCHEVA, A.P.; CHAKHAVA, O.V.

Effect of previously injected dysenterial and staphylococcal vaccines on the immunity to typhoid bacteria in irradiated animals. Radiobiologiya 4 no.3:419-423 '64.

(MIRA 17:11)

1. Institut epidemiologii i mikrobiologii imeni Gamalei AMN SSSR, Moskva.

L 3878-66 EWT(1)/EWA(j)/EWA(b)-2 JK

AM5023889

BOOK EXPLOITATION

UR/

616-001.28-07:612.017.1+616-001.28-07:616.9-097-07

⁵⁵Troitskiy, V. L.; ⁵⁵Kaulen, D. R.; ⁵⁵Tumanyan, M. A.; ³²Fridenshteyn, A. B.; ³²YA.; ³²Chakhava, O. V.

³²Radiation immunology¹⁹ (Radiatsionnaya immunologiya) Moscow, Izd-vo "Meditsina", 1965. 374 p. illus., biblio. (at head of title: Akademiya meditsinskikh nauk SSSR.) 2800 copies printed.

TOPIC TAGS: ¹⁹radiation immunology, ionizing radiation, lymphoid tissue transplantation, anaphylaxis, antibody formation, antitoxic immunity, immunological reactivity, hemopoietic tissue

ABSTRACT: This book is intended for scientists, radiobiologists, immunologists, and medical students. As stated by the authors, radiation immunology has assumed considerable significance in solving such problems as the loss of immunity due to irradiation and in the solution of some theoretical aspects of general immunology. This monograph is devoted to the effect of irradiation on immunological processes and methods of inducing the immunological reactivity in irradiated animals. Cellular immunology, the problems

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of allergy and anaphylaxis, tolerance, tissue transplantation, and antiradiation therapy by transfusion of hemopoietic tissue are discussed. The book includes data compiled by V. L. Troitskiy (deceased), whose work has been supplemented by the authors, including experimental data obtained from the Department of Radiation Immunology and Microbiology of the Institute of Epidemiology and Microbiology im. N. F. Gamalaya, Academy of Medical Sciences, USSR.

55

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Ch. III. Failure of antibody formation due to radiation -- 143

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SUB CODE: 15501-15502 SUBMITTED: 13Feb65 NO REF SOV: 229

OTHER: 1455

BVK

Card 3/3

CHAKHAVA, O.V.; GORYUNOVA, A.G.

In vitro production of lysozyme by histiocytes-macrophages. Antibiotiki
10 no.6:507-511 Je '65. (MIRA 18:7)

1. Otdel radiatsionnoy mikrobiologii i immunologii (zav. M.A.Tumanyan)
Instituta epidemiologii i mikrobiologii imeni N.F Gamalei AMN SSSR,
Moskva.

CHAKHAVA, V. G.

CHAKGAVA, V. G.: "The stimulation of parturition at various stages of pregnancy using an artificial foetal sac." Published by the Acad Sci Georgian SSR, Tbilisi State Medical Inst. Tbilisi, 1956. (DISSERTATION FOR THE DEGREE OF DOCTOR IN MEDICAL SCIENCE).

Knizhnaya letopis',
No. 25, 1956. Moscow.

CHAKHROV, N. S.

PHASE I BOOK EXPLOITATION SOV/5683

Akademiya nauk Gruzinskoy SSR. Institut elektroniki, avtomatiki i telemekhaniki

Trudy (Academy of Sciences of the Georgian SSR. Institute of Electronics, Automation and Remote Control. Transactions) No. 1. Tbilisi, 1960. 126 p. 500 copies printed.

Ed. A. I. Eliashvili; Deputy Ed.: E. Ualamueridze; Tech. Ed.: A. Thodua.

PURPOSE: This collection of articles is intended for scientists and technical personnel concerned with electronics in general, and machine translations in particular.

COVERAGE: Four out of the nine articles concern machine translation from Georgian into Russian, and vice-versa. Two articles consider general problems of machine translation. The three remaining articles discuss various electronic devices. Articles 1, 3, and 4 are written in Georgian with summaries in Russian. The

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Academy of Sciences (Cont.)

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remaining articles are in Russian. No personalities are mentioned. References accompany most of the articles.

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5. Kakauridze, A. G. Some Problems in Coding Vowel Sounds	41

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Academy of Sciences (Cont.)

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6. Imedadze, V. V., and I. P. Paylodze. Registers and Binary Counters Using Ferrites and Transistors 65
7. Imedadze, V. V., and A. G. Lekvinadze. Analysis of the Operation of a Thyatron Changeover Switch 93
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AVAILABLE: Library of Congress (TK7800.A45A14)

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JP/rsm/ec
10-28-61

CHAKHIROV, N.S.

Problem concerning the calculation of transient processes in a
saturable reactor with time-wise change in the load of the choke.
Trudy Inst.elek., avtom.i telem.AN Gruz.SSR 2:33-38 '61.

(MIRA 14:8)

(Electric driving) (Magnetic amplifiers)

CHAKHIROV, N.S. (Tbilisi)

Method for analyzing transient processes in an asynchronous electric
drive controlled by saturable reactors. Izv.AN SSSR.Otd.tekh.nauk.
Energ.i avtom. no.2:56-61 Mr-Ap '61. (MIRA 14:4)
(Electric motors, Induction)

IMEDADZE, V.V.; SAAKYAN, E.A.; CHAKHIROV, N.S.; FILIMONOV, V.N.

Correlation recorder using transistor and ferrite cells. Trudy
Inst. elek., avtom. i telem. AN Grus. SSR 3:35-46 '62. (MIRA 16:5)
(Information theory)

IMEDADZE, V.V.; SAAKYAN, E.A.; CHAKHIROV, N.S.

Statistical methods for determining the dynamic characteristics
of industrial objects. Trudy Inst. elek., avtom. i telem. AN
'4:67-74 '63. (MIRA 17:5)

L 01177-66 EMT(d)/ETD-2/EMP(1) IJP(c) BB/CC/GS

ACCESSION NR: AT5014333

UR/0000/64/000/000/0133/0141

AUTHOR: Chakhirov, N. S.; Basilashvili, A. N.

TITLE: DK-2 discrete correlator

SOURCE: AN GruzSSR. Institut elektroniki, avtomatiki i telemekhaniki. Elementy vychislitel'noy tekhniki i mashinnyy perevod (Elements of computer technology and machine translation). Tiflis. Izd-vo Metsniyereba, 1964, 133-141

TOPIC TAGS: correlation function, correlation computer, digital computer, ferrite transistor computer unit DK 2

ABSTRACT: The article describes a modification of an earlier discrete correlator (DK-1) originally developed at Institut elektroniki, avtomatiki i telemekhaniki (Institute of Electronics, Automation, and Telemechanics) AN GSSR. The revised model is aimed at correcting some shortcomings of the earlier correlator. A block diagram of the correlator is shown in Fig. 1 of the Enclosure. The correlation functions are calculated in accordance with the formulas

$$R_{xx}(p) = \sum_0^N X_n X_{n+p}$$

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ACCESSION NR: AT5014333

$$R_{xy}(n) = \sum_0^N \bar{X}_i \bar{Y}_{i+n}$$

The operation and the construction of the various units of the correlator are described in detail. It is expected that a single point of a correlation function consisting of 500 ordinates will be calculated by the DK-2 in 10 seconds, as against a minute in the earlier model. It is pointed out in the conclusion that although the final construction design of the DK-2 is incomplete, the final dimensions of the unit are expected to be smaller than the earlier model. Orig. art. has: 5 figures and 4 formulas.

ASSOCIATION: none

SUBMITTED: 14Aug64

NR REF SOV: 004

ENCL: 01

OTHER: 000

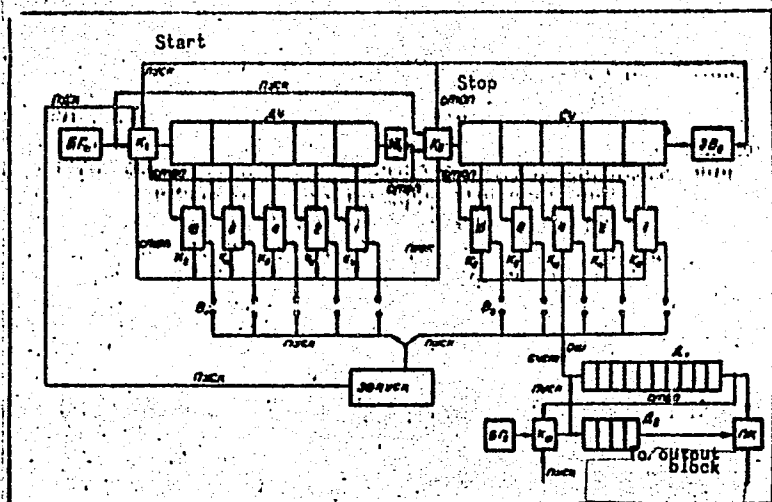
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Card 2/3

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ACCESSION NR: AT5014333

ENCLOSURE: 01



- Gr - self-oscillating blocking generator
- 30 - blocked blocking generator
- ДЧ - frequency divider
- СН - pulse counter
- К - gate
- Д - divider
- ПЧ - transfer switch

Fig. 1. Block diagram of correlator.

Card 3/3

AUTHOR: Chakhlenkova, T.G. (Murmansk) SOV/140-58-1-19/21

TITLE: The Geometry of m-Euclidean Spaces (Geometriya m-evklidovykh prostranstv)

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy Ministerstva vysshego obrazovaniya SSSR, Matematika, 1958, Nr 1, pp 174 - 183 (USSR)

ABSTRACT: A real n-dimensional m-Euclidean space R_n^m is defined as a projective space P_n in which an imaginary cone of second order $\sum_a (x^a)^2 = 0$ ($a, b, \dots = 0, 1, \dots, m$) is given, all the tangential hyperplanes of which run through the $(n-m-1)$ -dimensional plane $l_{m+1} l_{m+2} \dots l_n$ and in which furthermore an imaginary conic section is given lying in the mentioned plane and possessing the equation $\sum_u u^2 = 0$ ($u, v, \dots = m+1, m+2, \dots, n$) in the tangential coordinates.

The author presents several properties of this space already considered by Sommerville [Ref 1]. She investigates similari-

Card 1/2

The Geometry of m-Euclidean Spaces

SOV/140-58-1-19/21

ty transformations and motions of the R_n^m , also considering R_n^m as a metric m-affine space. It is shown that two p-dimensional planes of the R_n^m generally possess $p + 1$ metric invariants for $p \leq \frac{n-1}{2}$ and $n - p$ for $p \geq \frac{n-1}{2}$ which are analogous to the stationary distances of p-dimensional planes in S_n (Riemannian space $S_n \approx R_n^n$). Analogously to the paratactic straight lines in the S_n such ones are introduced in the R_n^m ; paratactic congruences are considered. Similar considerations are carried out in a complex unitary m-Euclidean space.

There are 3 references, 2 of which are Soviet, and 1 English.

ASSOCIATION: Murmanskij gosudarstvennyy pedagogicheskiy institut (Murmansk State Pedagogical Institute)

SUBMITTED: October 14, 1957

Card 2/2

CHAKHLENKOVA, T.G., Cand Phys Math Sci -- (diss) "Geometry
of T-Euclidean spaces." Mos, 1959, 11 pp (Mos State Ped Inst
im V.I. Lenin) 150 copies (KL, 35-59, 112)

- 112 -

S/058/63/000/001/016/120
A062/A101

AUTHOR: Anan'yev, L. M., Sulin, V. V., Chakhlov, V. L.

TITLE: Design of small-size induction accelerator for investigation of bore-holes

PERIODICAL: Referativnyy zhurnal, Fizika, no. 1, 1963, 40, abstract 1A378
(In collection: "Elektron. uskoriteli". Tomsk, Tomskiy un-t, 1961, 328 - 334)

TEXT: Requirements are formulated for a betatron intended to investigate bore-holes by the method of logging. A brief description is given of the 6.5 MeV betatron construction, designed for these purposes in the Tomsk Polytechnic Institute. The electromagnet of the accelerator together with the sealed off vacuum chamber is placed within an experimental device having an external diameter of 200 mm and a length of 830 mm. ✓

V. Kanunnikov

[Abstracter's note: Complete translation]

Card 1/1

VOROB'YEV, V.A.; GORBUNOV, V.I.; TITOV, G.V.; CHAKHLOV, V.I.

Use of betatrons for quality control of welds. Zav. lab. 31 no.2:
236-237 '65. (MIRA 18:7)

1. Tomskiy politekhnicheskiy institut im. S.M.Kirova.

L 39639-66 EWT(m) 100(c) GL-2

ACC NR: AP6002890

SOURCE CODE: UR/0286/65/000/024/0047/0047

AUTHOR: Anan'yev, L. M.; Chakhlov, V. L.

ORG: none

TITLE: Injector of an electron accelerator. Class 21, no. 176998

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 24, 1965, 47

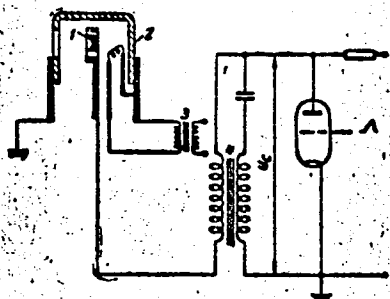
TOPIC TAGS: electron gun, electron accelerator, pulse generator, pulse transformer, commutator

ABSTRACT: The injector of an electron accelerator, consisting of an electron gun with a thermoelectron cathode and a high-voltage pulse generator, is characterized by the fact that the low-voltage end of the secondary winding of the pulse transformer is connected to the anode of the commutating device. This promotes the supply of positive pulses for heating the cathode in the intervals between the negative pulses, ensuring injection. The filament-supply transformer is at zero potential. These characteristics are incorporated in order to simplify the design of the injector and decrease its size.

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L 39639-66

ACC NR: AP6002890



1. thermoelectron cathode, 2. anode, 3. filament-supply transformer,
4. high-voltage pulse transformer

SUB CODE: Q8,09/ SUBM DATE: 18Dec63

Card

2/2 MLP

GRITSYK, V. I., inzh.; CHAKHLOV, V. S., inzh.

Reinforcing the conical pier-ends and channels of culverts. Transp.
stroil. 10 no.9:13-15 S '60. (MIRA 13:9)
(Culverts)

GRITSYK, V.I., inzh.; KASHIRSKIY, B.R., inzh.; CHAKHLOV, V.S., inzh.

Strengthening beds of water passages and embankments with asphalt
concrete slabs. Transp.stroi. 13 no.9:19-21 S '63. (MIRA 16:12)

CHAKHMACHEV, A.G., nauchnyy red.; DROZHILOVA, L.I., tekhn. red.

[Conditions determining the formation of oil and gas fields
in a series of oil- and gas-bearing regions of the U.S.S.R.]
Usloviia formirovaniia neftiannykh i gazovykh mestorozhdenii
riada neftegazonosnykh oblastei SSSR. Moskva, Proisvodstvenno-
izdatel'skii kombinat VINITI, 1963. 118 p. (MIRA 1634)

1. Moscow. Vsesoyuznyy institut nauchnoy i tekhnicheskoy in-
formatsii.

(Petroleum geology) (Gas, Natural--Geology)

CHAKHMAKHCHAN, A.A., inshener.

~~SECRET~~
Fluorescent lighting in schools. Svetotekhnika 2 no.5:
25 S '56.

(MLBA 9:11)

1. Proyektnyy institut "Gipropros."
(Fluorescent lighting)

CHAKHMAKHCHEV, A. G.

PA 4T24

USSR/Oil Areas

Mar 1947

"New Data on the Oil-bearing Kirovabad Area," A G
Chakhmakhchev, 9 pp

"Nertyanoye Khozaystvo" Vol XIV, No 3

Detailed physical description with two diagrams
and a map. Mentions Maykop, Akchalinak, Kazan-
Dulag, Ali-Ushagi, et al.

4T24

CHAKHMAKHCHEV, A. G.

KUTUKOV, A.I., inshener; CHAKHMAKHCHEV, A.G., inshener.

Preventing accidents in oil and gas industry. Desop.truda v
prom. 1 no.6:9-11 Jo '57. (MIRA 10:7)
(Petroleum industry--Safety measures)

~~CHAKHMAKHCHEV, A.G.~~

KUTUKOV, A.I.; CHAKHMAKHCHEV, A.G.

Losses and efficient use of casing-head gas. Neft. khos. 35
no.10:39-44 0 '57. (MIRA 11:1)
(Gas, Natural)

CHAKHMAKCHEV A.S.

SERGEYEV, A.A., red.; ANPILOGOV, I.M., red.; ASSONOV, V.A., red.; BABAYANTS, N.A., red.; BABOKIN, I.A., red.; BALAMUTOV, A.D., red.; BOGORODSKIY, N.N., red.; BOLOHENKO, D.N., red.; BUCHNEV, V.K., red.; VAKHMINTSEV, G.S., red.; VORONKOV, A.K., red.; GARKALENKO, K.I., red.; GORBATOV, P.Ye., red.; GOLOVLEV, V.Ya., red.; DOKUCHAYEV, M.M., red.; DUBNOV, L.V., red.; YEVTHEYEV, A.D., red.; YEREMENKO, Ye.K., red.; ZENIN, N.I., red.; KRIVONOGOV, K.K., red.; KUPALOV-YAROPOLK, I.K., red.; MATSYUK, V.G., red.; NIKOLAYEV, S.I., red.; ONISHCHUK, K.N., red.; PETROV, K.P., red.; PITYUGIN, B.A., red.; PLATONOVA, I.A., red.; POLJESIN, Ya.L., red.; POKROVSKIY, L.A., red.; POMESTUN, D.Ye., red.; POLYUSHKIN, A.Kh., red.; REYKHER, V.P., red.; SEDOV, N.A., red.; SIDORENKO, I.T., red.; FIDELLEV, A.A., red.; CHAKHMAKCHEV, A.G., red.; CHEMODUROV, M.Ya., red.; SHUMAKOV, A.A., red.; YAREMENKO, N.Ye., red.; PARTSEVSKIY, V.N., red.izd-va; ATTOPOVICH, M.K., tekhn.red.

[Standard safety regulations for blasting operations] Edinye pravila bezopasnosti pri vzryvnykh rabotakh. Izd.2. Moskva, Gos. nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1958. 318 p. (MIRA 13:1)

1. Russia (1923- U.S.S.R.) Komitet po nadzoru za bezopasnym vedeniyem rabot v promyshlennosti i gornomu nadzoru. (Mining engineering--Safety measures)

CHAKHMAKHCHEV, A.G., inzh.

Building installations in offshore oil fields. Bezop.truda v pron.
2 no.5:13-15 My '58. (MIRA 11:4)
(Petroleum engineering)

CHAKHACHAV, V.A.; KHEL'KVIST, V.G.

Formation of local uplifts and structural relationships in the
Mesozoic and Cenozoic cover of the Epi-Hercynian platform in
western Ciscausia. Trudy VNI no.30:116-127 '60. (NIA 14:2)
(Caucasus, Northern--Geology, Structural)

MIRCHINK, M.F.; LETAVIN, A.I.; CHAKHMAKHCHEV, V.A.

Transitional and early platform development of western
Ciscaucasia. Dokl. AN SSSR 145 no.1:168-171 J1 '62.
(MIRA 15:7)

1. Institut geologii i razrabotki goryuchikh iskopayemykh.
2. Chlen-korrespondent AN SSSR (for Mirchink).
(Russia, Southern--Geology)

FEDOROV, S.F.; CHAKHMAKHCHEV, V.A.

Recent data on the regularities of the formation of gas-
condensate pools. Neftegaz. geol. i geofiz. no.11:12-16 '64.
(MIRA 18:3)

1. Institut geologii i razrabotki goryuchikh iskopayemykh.

CHAKHMAKHCHEV, V.A.; YAKOVLEV, B.M.

Origin of Paleocene oil pools in the Kuban-Azov Lowland.
Neftegaz. geol. i geofiz. no. 10:12-15 '65. (MIRA 18:12)

1. Institut geologii i razrabotki goryuchikh iskopayemykh,
Moskva.

CHAKHMAKHCHEV, V.G.

Tectonic position of quartzite-sandstones in the Lake Onega
region. Geotektonika no.1:35-45 Ja-F '66.

(MIRA 19:1)

1. Geologicheskii institut AN SSSR.

USSR/Electricity - Conductors, Wire Jan 51

"Influence of the Stressed State in a Wire on Its Electrical Resistance," Ye. A. Chakmakhsazyan, Ktalon Plant, Leningrad

"Zhur Tekh Fiz" Vol XXI, No 1, pp 32-38

Considers reasons for variations resistance of manganese coils. Establishes that instability of electrical resistances of coils after heat treatment is due mainly to stresses that arise in wire during its winding on cyl frame. Stable manganese coils can

174717

USSR/Electricity - Conductors, Wire Jan 51
(Contd)

be prep'd by heat treatment which ensures transi-
tion of elastic deformation of wire to plastic de-
formation during heating. Submitted 31 Dec 49.

174717

CHAKMAKHSAZYAN, Ye. A.

CHAKHMAKHYAN, R.A.

Device for determining the condition of jumpers and rail joint insulation. Avtom., telem. i svyaz' no.5:32-33 My '57. (MLRA 10:7)

1. Pomoshchnik revisora po bezopasnosti dvizheniya poyezdov Rostovskogo otdeleniya Severo-Kavkazskoy dorogi.
(Railroads--Rails)

CHAKHMAKHAN, R.A.

CHAKHMAKHAN, R.A.

**One means of controlling accumulator effect. Avtom., telem. 1
sviaz' no.10:34-35 0 '57. (MIRA 10:11)**

**1. Pomoshchnik revisora po bezopasnosti dvizheniya Rostovskogo
otdeleniya Severo-Kavkazskoy dorogi.**

(Railroads--Communication systems)

CHAKHMAKHYAN, R.A.

New method for preparing diagrams of signaling, central control,
and block systems. Avtom.telem. i sviaz' 3 no.1:24-25 Ja '59.
(MIRA 12:1)

1. Pomoshchnik revisora po bezopasnosti dvizheniya Rostovskogo
otdeleniya Severo-Kavkazskoy dorogi.
(Railroads—Signaling)

CHAKHMAKHYAN, R.A.

Industrial method for manufacturing lead cable jointing sleeves.
Avtom., telem.i svyaz' 6 no.1:28-30 Ja '62. (MIRA 15:3)

1. Glavnyy inzh. Rostovskogo upravleniya tresta "Promsvyaz'montazh".
(Electric cables)

SHTUTMAN, M.B., inzh.; CHAKHMAKHYAN, R.A., inzh.

Unit for over-all mechanization of cable-laying operations. Mont.
i spets. rab. v stroi. 24 no.5:20-22 My '62. (MIRA 15:5)

1. Rostovskoye upravleniye promsvyaz'montazh.
(Electric cables) (Excavating machinery)

MARIKASHVILI, S.P.; CHAKHASHVILI, Sh.A.

Quantitative characteristics of the reflex discharge. Trudy Inst.
fisiol. AN Gruz.SSR. 7:155-186 '48. (MIRA 9:8)
(REFLEXES)

CHAKHNASHVILI, Sh. A.

CHAKHNASHVILI, Sh. A.: "The physiological principles of active recreation."
Published by the Acad Sci Georgian SSR, Acad Sci Georgian
SSR. Inst of Physiology imeni I. S. Beritashvili. Tbilisi, 1956.
(Dissertation for the Degree of Candidate in Biological Sciences).

Source: Knizhnaya letopis' No. 28 1956 Moscow

CHAKHOTIN, S.S.

Use of partial-cell irradiation in studying localized effects of
ultraviolet rays on living cells. TSitologiya 1 no.6:614-626
N-D '59. (MIRA 13:4)

1. Institut tsitologii AN SSSR, Leningrad.
(MICHURGY) (ULTRAVIOLET RAYS--PHYSIOLOGICAL EFFECT)

CHAKHOTIN, S.S.

Letter to the editor. Tsitolgia 2 no.1:125-126 Ja-F '60.

(MIRA 13:5)

(MICROSCOPY--TECHNIQUES)

CHAKHOTIN, Sergey Stepanovich (Institute of Physiology im. Pavlov,
Acad Sci USSR) for Doctor of Biological Sciences, without defense
of a dissertation (for joint work). (ENVISSO USSR, 2-61, 25)

CHAKHOTIN, S.S., prof., doktor biologicheskikh nauk

Ultraviolet scalpel. Nauka i shizn' 29 no.4:33-36 Ap '62.

(MIRA 15:7)

(MICRURGY)

(ULTRAVIOLET RAYS)

KOMLEV, G.A.; CHAKHOTIN, V.S.

Increasing the solubility of the cadmium contained in Waelz
kiln oxides. TSvet. met. 34 no.8:79-80 Ag '61. (MIRA 14:9)

1. Nauchno-issledovatel'skiy institut metallurgii Chelyabinskogo
sovmarkhoza.

(Cadmium--Metallurgy)

CHAKHOTIN, V.S.; UDALOV, L.K.; STEPANOV, B.A.

Use of natural gas at the Almalyk copper smelting plant. TSvet.
met. 35 no.11:49-51 N '62. (MIRA 15:11)
(Almalyk--Copper--Metallurgy)

BOCHKAREV, L.M.; BYKHOVSKIY, Yu.A.; PARETSKIY, V.M.; CHAKHOTIN, V.S.

Certain physicochemical phenomena in the flame during oxygen-blown smelting of copper sulfide concentrates in suspension.
TSvet. met. 38 no.11:67-75 N '65. (MIRA 18:11)

CHAKHOVA, O. V., KAULEN, D. R., TROITSKIY, V. L., TUMANYAN, M. A.

"On the effect of ionizing radiations on antibacterial immunity."

report submitted at the 13th All-Union Congress of Hygienists, Epidemiologists and Infectionists, 1959.

KOMLEV, G.A.; KLEANDROV, T.N.; CHAKHOTIN, V.S.; UDALOV, L.K.; MAKAROV, V.F.

Reducing losses of metal in the processing of mercury ores in rotary tube furnaces. Izv.AN Uz.SSR.Ser.tekh.nauk 8 no.4:66-69 '64.
(MIRA 18:4)

1. Sredneaziatskiy filial Gosudarstvennogo nauchno-issledovatel'skogo instituta tsvetnykh metallov.

CHAKHNOVICH R. A.

EXCERPTA MEDICA Sec 8 Vol 12/10 Neurology Oct 59

5024. THE OUTBREAK OF AN ACUTE VIRULENT NEURO-INFECTION IN KRASNOYARSK (Russian text) - Chakhnovitch R. A., Gaidamovitch S. Y. and Zolotoukhina N. A. - ZH. NEVROPAT. I PSIKHIAT. 1959, 59/3 (334-336)

In 1953, a study was made of 30 patients, mainly young subjects. The incidence was highest in the spring (22). The clinical picture was characterized by a sudden onset and was generally accompanied by a subfebrile temperature and by disorders of the vestibular nerve. At the same time, moderate meningeal symptoms and a slight pyramidal insufficiency were observed. Some patients suffered from sleep disorders and from hyperkinesia of the myoclonic type. A diffuse encephalomyelitis or an infectious hepatitis might be assumed. At the Institute of Virology of the Academy of Medical Sciences of the USSR, blood sera of 12 patients were examined. Neutralization tests were negative in all cases.

(L, 8)

CHERNENKO, Mark Semenovich, kand.ekon.nauk; CHUKHNO, A.A., red.; CHAKHOVIY,
M.M., red.

[Leninist principle of democratic centralization in the management
of the national economy] Lenins'kyi pryntsyyp demokratychnoho
tsentralizmu v upravlinni narodnym hospodarstvom. Kyiv, 1958. 45 p.
(Tovarystvo dlia peshyrennia politychnykh i naukovykh snan' Ukraini'koi
RSR. Ser.2, no.2) (MIRA 12:3)
(Russia--Economic policy)

SHKUTKO, N.V.; CHAKHOVSKIY, A.A.; BOBOREKO, Ye.Z.

Effect of the drought of 1959 on trees and shrubs at the Central Botanical Garden of the Academy of Sciences of the White Russian S.S.R. Sbor. nauch. rab. TSBS no.1:37-41 '60.

(MIRA 14:10)

(Minsk—Plants, Effect of aridity on)

CHAYNOVSKIY, A.A.

Care of trees in the street plantations of Minsk. Sbor.
mashb. rab. TSES no. 2.60-66 '60. (MIRA 14:10)
(Minsk--Trees in cities)

CHAKHOVSKIY, A.A. [Chakhouski, A.A.]

Foliar feeding of ornamental trees. Vestsi AN BSSR. Ser. bial.
nav. no. 3:27-30 '60. (MIRA 14:1)
(WHITE RUSSIA—TREES—FERTILIZERS AND MANURES)

SHKUTKO, N.V.; CHAKHOVSKIY, A.A.

Natural reproduction of some introduced coniferous varieties.

Sbor. nauch. rab. TSBS no.2:61-64 '61.

(MIRA 15:7)

(Minsk---Coniferae)

SHKUTKO, N.V.; CHAKHOVSKIY, A.A.

Watering street trees in Minsk. Sbor. nauch. rab. TSBS no.2:
126-135 '61.

(MIRA 15:7)

(Minsk—Trees—Water requirements)

CHAKHOVSKIY, A.A.

Tree peony in the Botanical Garden of the Academy of Sciences
of the White Russian S.S.R. Sbor. nauch. rab. Bel. otd. VBO
no. 3:229-230 '61. (MIRA 14:12)

(Minsk—Peonies)

SHKUTKO, Nikolay Vasil'yevich; CHAKHOVSKIY, Aleksandrovich

[Landscaping of cities and settlements] Ozelenenie gorodov i naselennykh punktov. Minsk, Nauka i tekhnika, 1965. 81 p. (MIRA 19:1)

CHAKHOVSKIY, I.A., aspirant

Some results of an analysis of local food products for their cobalt content. Preliminary report. Zdrav. Belor. 6 no.6:35-37 Je '60.
(MIRA 13:8)

1. Kafedra gigiyeny (sav. - chlen-korrespondent AMN SSSR, professor
Z.K. Mogilevchik) Minskogo meditsinskogo instituta.
(WHITE RUSSIA--MINERALS IN FOOD) (COBALT)

CHAKHOVSKIY, I.A.

Fourteenth Session of the Institute of Nutrition of the Academy of
Medical Sciences of the U.S.S.R. Zdrav. Belor. 6 no. 10:72-73
0 '60. (MIRA 13:10)

(NUTRITION)

CHAKHOVSKIY, I.A.

Dependence of the cobalt of normal blood on the amount in food at different seasons. Zdrav. Bel. 7 no.6:17-21 Je '61. (MIRA 15:2)

1. Iz kafedry gigiyeny Minskogo meditsinskogo instituta (zaveduyushchiy kafedroy - chlen-korrespondent AMN SSSR, prof. Z.K.Mogilevchik).
(COBALT IN THE BODY)

CHAKHOYAN, A.

Using capron in the shoe industry. Prom.Arm. 4 no.8:63-65
Ag '61. (MIRA 14:8)

1. Yerevanskaya fabrika individual'nogo poshiva obuvi No.2.
(Nylon) (Armenia—Shoe manufacture)

Chibauri, A. I. Geometry connected with a correlative transformation. *Trav. Inst. Math. Tbilissi* [Trudy Tbiliss. Mat. Inst.] 13, 101-137 (1944). (Russian. Georgian summary) [MF 14622]

The paper deals with the relationship between the algebraic and analytic approaches to geometry. First, following Bertolotti [Ann. Mat. Pura Appl. (4) 9, 111-134 (1932)] and Norden [Abh. Sem. Vektor- und Tensoranalysis [Trudy Sem. Vektor. Tenzor. Analizu] 2-3, 229-268 (1935); unpublished dissertation] a method of introducing an affine connection into a space with a given correspondence between points and hyperplanes is presented; this connection, which is projectively Euclidean, is then specialized for the case when the correspondence is given by a nonsymmetric matrix (the case of a polarity, when the matrix is symmetric, has been studied before, and is here considered as a special case along with some other special cases); the resulting space is called correlative. The case $n=2$, requiring special consideration, is treated in chapter II. In the last chapter the author follows a portion of Norden's paper mentioned above, extending to the case of a pair of surfaces in correlative space some of the concepts and results discussed in that paper for projective space.

G. Y. Rainich (Ann Arbor, Mich.)

Source: Mathematical Reviews,

Vol. 8, No. 2

Mathematical Reviews
Vol. 14 No. 11
December, 1958
Geometry.

Chibauri, A. I. The intrinsic geometry of plane nets.
Akad. Nauk Gruzin SSR, Trudy Tbilis. Mat. Inst.
Rasmadze 18, 101-148 (1947). (Russian. Georgian
summary)

The paper consists of four chapters the first of which is devoted to the intrinsic construction of a projective geometry in a plane in which there is given a correspondence between points and lines. If the points are given by $x^a(u^1, u^2)$ and the corresponding lines by $\xi_a(u^1, u^2)$, the point not being on the line, then the three points x^a, y_1^a, y_2^a where $y_1^a = \delta^a x^a - l^a x^a$ with l^a so determined that $\xi_a y_1^a = 0$, form a moving trihedral from which an affine connection is constructed in the usual manner. It then follows that the curvature tensor of this correspondence is given by $R^a_{bcd} = \delta^a P_{(b,c)} - \delta^a P_{(c,b)}$, thus showing that the connection is projectively euclidean. This construction is then dualized and the various possible relations between the two are examined.

The remaining three chapters are devoted to special correspondences—or configurations—determined by planar nets, in particular, to Laplacian, mutually Laplacian and auto-Laplacian configurations. The cases where the geometry reduces to that of Weyl or Riemann are examined. There are a few misprints and one or two unjustified assumptions.

M. Knebelman (Pullman, Wash.).

(Čabtauri, A. I. On canonical bundles of lines. Doklady Akad. Nauk SSSR (N.S.) 59, 1257-1259 (1959). (Russian)

L'auteur donne, du faisceau canonique d'une surface ou d'un réseau plan, une expression analytique, possédant, sur celle de Fubini et Čech, l'avantage d'être indépendante. s'il s'agit d'une surface, du choix du tétraèdre mobile et de sa normalisation, s'il s'agit d'un réseau plan, du choix des coordonnées curvilignes et de la normalisation du tenseur de ce réseau. Pour les notations, se reporter aux traités de Fubini et Čech, aux notes de Norden [C. R. (Doklady) Acad. Sci. URSS (N.S.) 49, 625-628 (1945); 53, 493-498 (1946); ces Rev. 9, 93, 346], à un article de Dubnov [Trudy Sem. Vektor. i Tensorializma [Trudy Sem. Vektor. i Tensorializma] 4, 197-202 (1937)]. Pour une surface de l'espace projectif à 3 dimensions, normalisée au sens de Norden, soient x^a les coordonnées du point courant, e_a celles du plan tangent en ce point; les points $y^a = \partial x^a / \partial t$ définissent la normale de seconde espèce, les plans $\pi_a = \partial x^a / \partial t$ la normale de première espèce; G_{ij} , Γ_{ij} sont les coefficients de la connexion intrinsèque de première et seconde espèce; R_{ij} tenseur de Ricci de la connexion de première espèce, b_{ij} tenseur du réseau asymptotique, t_i tenseur de Tchebitcheff du réseau asymptotique de la connexion G_{ij} ; pour une surface normalisée, on définit les tenseurs r_i , v_i indépendants de la normalisation des b_{ij} .

$$r_i = \frac{q^a (\nabla_i b_a - t_i b_a)}{2J}, \quad v_i = \frac{1}{2} \tilde{b}^a (\nabla_i b_a - 2t_i b_a) + \partial_i \log J,$$

avec

$$J = \tilde{b}^a \tilde{b}^b \tilde{b}^c (\nabla_a b_b - t_a b_b) (\nabla_b b_c - t_b b_c), \quad \tilde{b}_{(ab)} = R_{ab} - \frac{1}{2} \nabla_a t_b + \frac{1}{2} \nabla_b t_a,$$

$$q^{ij} = \tilde{b}^i \tilde{b}^j \tilde{b}^k (\tilde{b}_{(ik)} - \frac{1}{2} \tilde{b}^m \tilde{b}_{(m)} \tilde{b}_{(k)}), \quad \tilde{b}_{(ab)} = R_{ab} - \frac{1}{2} \nabla_a t_b + \frac{1}{2} \nabla_b t_a.$$

Une droite arbitraire du faisceau canonique est l'intersection des plans $\pi_a = \partial x^a / \partial t$, avec $q_a = -\lambda r_a + (\lambda + \frac{1}{2}) v_a$, λ étant le paramètre du faisceau; $\lambda = -\frac{1}{2}$ donne la directrice de Wilczynski; $\lambda = 0$, la normale de Fubini. La droite réciproque, par rapport à la quadrique de Lie, d'une droite du faisceau canonique sera appelée droite canonique de seconde espèce et est définie par les points $x^a = y^a + p x^a$ où $p_i = \frac{1}{2} t_i + q_i$. Cette définition se conserve pour un réseau plan quelconque, à condition de remplacer b_{ij} par le tenseur d'un réseau plan arbitraire.

Partant de la conception de la droite de Laplace relative à un réseau plan, nous arrivons par dualité à la conception du point de Laplace pour une congruence plane de droites.

Source: Mathematical Reviews, Vol 9 No. 7

CHAKHAVRI, A. I.

La droite réunissant les points de Laplace de la congruence des tangentes aux courbes du réseau s'appelle seconde droite de Laplace; la représentation de cette dernière se fait par les points $s_i^2 = y_i^2 + r x_i^2$, tandis que la première droite de Laplace est définie par les points y_i^2 . Les deux droites de Laplace, la droite joignant leur point d'intersection au point x^2 et la directrice de Wilczynski forment un faisceau harmonique. Cette méthode permet de retrouver tous les résultats de Fubini et Cech pour le faisceau canonique d'un réseau plan.

B. Gambier (Paris).

Source: Mathematical Reviews, 2/1 Vol 7 No. 7

~~CHAKHTAURI, A. I.~~ CHAKHTAURI, A. I.

Chakhtauri, A. I. On projective bending of a plane net.
Sobshchaniya Akad. Nauk Gruzin. SSR 11, 531-532 (1950).
(Russian)

If $x^a = x^a(u^1, u^2)$, $a_i du^i du^j = 0$ define a plane net, they determine an affine connection Γ^a_{ij} . It is shown that if there are two such nets, projectively deformable into one another, it is necessary and sufficient that

$$\Gamma^a_{ij} = \Gamma^a_{ij} + \rho \delta_j^a + \rho \delta_i^a + \mu^a a_{ij}.$$

The author proves that if the two nets form a configuration of Laplace, $\mu^a = -\delta^a \rho$, where ρ is a gradient.

M. S. Koshelov (Pullman, Wash.).

SO: MATH. REV; VOL. 14, NO. 9, OCT. 1953, PP. 831-934 - UNCLASSIFIED

CHAKHTAURI, A.I.

Application of inner geometries of plane nets in the
theory of surfaces. Trudy Tbil.mat.inst. 20:89-130 '54.
(Geometry, Differential--Projective) (MLBA 8:8)

CHAKHTAURI, A. I.

Chakhtauri, A. I. On an invariant characteristic of a projectively deformable surface. Soobšč. Akad. Nauk Gruzin. SSR 17 (1956), 3-6. (Russian)
For the R -surfaces of Fubini-Cech [Introduction à la géométrie projective différentielle des surfaces, Gauthier-Villars, Paris, 1931, pp. 85-86], which are non-ruled projectively deformable surfaces, the parameters of the asymptotic lines can be selected such that $\beta_1 = \gamma_1$, where $au^2 + v^2 = 0$ gives the Darboux directions. In the present paper it is shown that an invariant characteristic of such surfaces is the gradient character of the vector τ_1 , where

$$\tau_1 = \frac{1}{12J} D^{\lambda\mu\nu} \nabla_\lambda D_{\mu\nu}$$

$D_{ij}x = \nabla_i b_{ij} - \frac{1}{2} (b_{ik} b_{ij} + b_{kj} b_{ii})$, $J = \frac{1}{2} D^{ij} x D_{ij} x$, $\mu = \frac{1}{2} b^{ij} (2 \nabla_i b_{ij} - \nabla_j b_{ii})$, and $b_{ij} dx^i dx^j = 0$ gives the asymptotic lines. Covariant differentiation is defined with respect to a basic set of four points x^α , X^α , $\partial_1 x^\alpha$, $\partial_2 x^\alpha$, $\alpha = 1, 2, 3, 4$; x^α on the surface $x^\alpha = x^\alpha(u^1, u^2)$, X^α not in the

Contour, H.I.

tangent plane; and such that

$$\partial_{ij}x^a = \Gamma_{ij}^m \partial_m x^a + p_{ij}x^a + b_{ij}X^a;$$

the Γ_{ij}^m are the coefficients of connection, p_{ij} is arbitrary.

The directions of Darboux are given by $D_{ij}x^a du^i du^j du^k = 0$;

raising of indices is with the aid of b^{ij} , the inverse of b_{ij} ;

D. J. Struik (Cambridge, Mass.).

3

2/2

Struik

CHAKHUNASHVILI, G.A. (Tbilisi, ul. Dzhnashvili, 8)

Changes in the blood cholinesterase activity under the influence
of anesthesia and surgical trauma. Vest. khir. 92 no.6:68-71
Je '64. (MIRA 18:5)

1. Iz gospi'tal'noy khirurgicheskoy kliniki (zav. - prof. M.K.
Chachava) pediatricheskogo i sanitarno-gigiyenicheskogo fakul'tetov
Tbilisskogo meditsinskogo instituta na baze 2-y gorodskoy bol'nitsy
(glavnyy vrach - doktor med. nauk B.Sh. TSereteli) i laboratoriya
biokhimii (zav. - kand. biolog. nauk T.F. Michkhaya) Nauchno-issle-
dovatel'skogo instituta tuberkuleza Ministerstva zdravookhraneniya
Gruzinskoy SSR.

CHAKHUNASHVILI, S.Yu., prof.; SHAKARISHVILI, M.N.

Acute appendicitis in elderly and senile persons. Trudy Inst.
im. N.V. Sklif. 9:271-277 '63. (MIRA 18:6)

1. Tbilisskiy gosudarstvennyy meditsinskiy institut.

CHAKHUNASHVILI, O. S.

Cand Med Sci - (diss) "Operative treatment of forearm bone fractures with the aid of intra-osteal fixation by metallic rods." Moscow, 1961. 19 pp; (Academy of Medical Sciences USSR); 300 copies; price not given; list of author's works on pp 18-19 (11 entries); (KL, 10-61 sup, 227)

SHNEI, A.Ya.; CHAKHUNASHVILI, O.S.; SIMONYAN, K.S., red.; KOKIN,
N.M., tekhn. red.; BASHMAKOV, G.M., tekhn. red.

[Prolonged local anesthesia as a therapeutic method]
Dlitel'noe mestnoe obezbolivanie kak lechebnyi metod.
Moskva, Medgiz, 1963. 85 p. (MIRA 17:1)

*

CHAKHUNASHVILI, S.Yu.; ZEN'KO, N.I.; KIKHADZE, V.V.

Comparison of clinical roentgenological data after resection of
the stomach in peptic ulcer. Khirurgiia 36 no.2:27-31 F '60.
(MIRA 13:12)

(STOMACH—SURGERY)

CHAKHUNASHVILI, S.Yu.

Surgical intervention in peptic ulcer in extreme old age. Socb.
AN Gruz. SSR 28 no.6:763-766 Je '62. (MIRA 15:7)

1. Tbilisskiy gosudarstvennyy meditsinskiy institut. Predstavleno
akademikom K.D.Eristavi.
(GERIATRICS) (PEPTIC ULCER)

NR: 11/T/EEC(b)-2
 AUTHOR: Chakhunashvili, V. N.
 AP5013984

Pi-4 IJP(c) GG

UR/0251/65/038/002/0383/0390

TITLE: The problem of investigating the temperature field of molten germanium, and of the production of crystals with desired dimensions and with even distribution of impurities in the cross section

SOURCE: AN GruzSSR. Soobshcheniya, v. 38, no. 2, 1965, 383-390

TOPIC TAGS: germanium, monocrystalline structure

ABSTRACT: The author refers to his work (Issledovaniye temperaturnogo polya rasplava germaniya pri vytyagivani monokristallov po metodu Chokhralskogo, Trudy MIITA, 1964) on drawing of monocrystals by the I. I. Chokhralskiy method. The model theory and its applicability are discussed. The new experiments are described in detail in this article. The dimensions of the products were 15-35 mm in diameter and 170-220 mm in length. The present study revealed some complex relations, expressed in formulas which can be reduced to the equation:

$$\frac{t_p}{t_c} = C + 0.96 \left(\frac{t_{exp}}{t_c} - 0.985 \right)$$

Card 1/2

Poly-

SUBMITTED: 07/0

L 54004-65 EWT(1)/T/EEC(b)-2 Pi-4 IJP(c) GG

ACCESSION NR: AP5013984

UR/0251/65/038/002/0383/0390

AUTHOR: Chakhunashvili, V. N.

TITLE: The problem of investigating the temperature field of molten germanium, and of the production of crystals with desired dimensions and with even distribution of impurities in the cross section

SOURCE: AN GruzSSR. Soobshcheniya, v. 38, no. 2, 1965, 383-390

TOPIC TAGS: germanium, monocrystalline structure

ABSTRACT: The author refers to his work (Issledovaniye temperaturnogo polya rasplava germaniya pri vytyagivani monokristallov po metodu Chokhral'skogo, Trudy NIITA, 1964) on drawing of monocrystals by the I. I. Chokhral'skiy method. The model theory and its applicability are discussed. The new experiments are described in detail in this article. The dimensions of the products were 15-35 mm in diameter and 170-220 mm in length. The present study revealed some complex relations, expressed in formulas which can be reduced to the equation:

$$\frac{t_p}{t_0} = 0 + 0,96 \left(\frac{t_{nag}}{t_0} - 0,98 \right)$$

Cord1/2

L 54004-65

ACCESSION NR: AP5013984

where t_0 is the crystallization temperature. Coefficient "C", a function of the physical dimensions and the criterion of growth, is the main subject of the remaining part of the article. Conclusions from these findings (particularly those pertaining to the distribution of impurities and related changes in electrical resistance) are briefly discussed. Orig. art. has: 12 equations and 4 figures.

ASSOCIATION: Gruzinskiy politekhnicheskii institut im. V. I. Lenina (Georgian Polytechnic Institute)

SUBMITTED: 07Jan65

NO REF SOV: 004

ENCL: 00

OTHER: 000

SUB CODE: SS, MM

Doc
Card 2/2

SYROMYATNIKOVA, M.D.; SAPOZHNIKOVA, V.A.; GOL'DBERG, R.M.; CHAKRUTINSKAYA, M.G.

Study of the effectiveness of dispensary service for dysentery cases. Trudy Len.inst.epid. i microbiol. 18:228-240'58.

(MIRA 16:7)

1. Iz sektora epidemiologii (zav. I.A.Ansheles) i laboratorii kishhechnykh infektsiy (zav.E.M. Novgorodskaya) Leningradskogo instituta epidemiologii, mikrobiologii i gigiyeny imeni Pastera.

(~~LENINGRAD-DYSENTERY~~)

(~~LENINGRAD-HOSPITALS-OUTPATIENT SERVICES~~)

CHAKHUTINSKAYA, M.G.

Data on the biological characteristics of relatively rare
Salmonella representatives. Trudy Len. inst. epid. i mikro-
biol. 21:175-186'60. (MIRA 16:6)

1. Iz laboratorii kishhechnykh infektsiy Leningradskogo insti-
tuta epidemiologii, mikrobiologii i gigiyeny Imeni Pastera.
(SALMONELLA)

ANSHELES, I.M. [deceased]; NOVGORODSKAYA, E.M.; SAPOZHNIKOVA, V.A.;
GOL'DBERG, R.M.; CHAKHUTINSKAYA, M.G.

Epidemiological characteristics of dysentery during a downward
curve of the incidence in a large populated center. Trudy Len.
inst. epid. i mikrobiol. 24:15-53 '63. (MIRA 18:10)

1. Iz sektora epidemiologii i laboratorii kishhechnykh infektsiy,
Instituta epidemiologii i mikrobiologii imeni Pastera.

L 53883-65 EMT(1)/EMA(j)/EMA(b)-2 JK
ACCESSION NR: AP5012904

UR/0297/65/010/005/0461/0465
616.981.49-085.779.931-093
23
21
B

AUTHOR: Voronova, G. V.; Chakhutinskaya, M. G.

TITLE: Clinical and microbiological characteristics of salmonellosis cases treated with monomycin

SOURCE: Antibiotiki, v. 10, no. 5, 1965, 461-465

TOPIC TAGS: infection, antibiotic, salmonella, microbiology, chemotherapy

ABSTRACT: Fifteen salmonellosis patients (20-60 years of age) were administered 250,000 units of monomycin orally 3 times a day for 5-7 days; several of these received the drug intramuscularly from the 3rd-5th day of disease. Fifteen controls were treated with synthomycin or some other drug. Clinical symptoms -- elevated temperature, vomiting, abnormal stools -- subsided in both patient groups in a little over 2 weeks. The therapeutic effect of monomycin was apparently no greater than that of the other drugs. Oral administration of the antibiotic temporarily suppressed the excretion of salmonellas in the feces, but intramuscular administration had no effect on the number of pathogens eliminated. Orig. art. has 3 figures.

Card 1/2

L 53883-65

ACCESSION NR: AP5012904

ASSOCIATION: Kafedra infeksionnykh bolezney vzroslykh Leningradskogo pediatri-
cheskogo meditsinskogo instituta (Department of Infectious Diseases of Adults,
Leningrad Institute of Pediatrics); Laboratoriya kishhechnykh infektsiy Leningrad-
skogo nauchno-issledovatel'skogo instituta epidemiologii i mikrobiologii im.
Pastera (Laboratory of Intestinal Infections, Leningrad Scientific Research Insti-
tute of Epidemiology and Microbiology)

SUBMITTED: 12Jun64

ENCL: 00

SUB CODE: LS

NO REF SOV: 009

OTHER: 007

Card 2/2

SOV/112-57-9-18503D

Translation from: Referativnyy zhurnal, Elektrotehnika, 1957, Nr 9, p 58 (USSR)

AUTHOR: Chakhvadze, G. Z.

TITLE: Investigation of Shearing Strength in Loess-Like Soils of Irregular Structure (Issledovaniye soprotivleniya sdvigu v lesovidnykh gruntakh narushennogo slozheniya)

ABSTRACT: Bibliographic entry on the Author's dissertation for the degree of Candidate of Technical Sciences, presented to In-t sooruzh. AN UzSSR (Institute of Constructions, AS UzbekSSR), Tashkent, 1956.

ASSOCIATION: In-t sooruzh. AN UzSSR (Institute of Constructions, AS UzbekSSR)

Card 1/1

SOV/124-58-2-2203

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 2, p 99 (USSR)

AUTHOR: Chakhvadze, G. Z.

TITLE: Investigation of the Shear Strength of Loess-type Soils With a Disturbed Texture (Issledovaniye soprotivleniya sdvigu v lessovidnykh gruntakh narushennogo slozheniya)

PERIODICAL: Tr. Sredneaz. n. -i. in-ta irrigatsii, 1956, Nr 82, pp 35-53

ABSTRACT: Description of results of investigations performed for the purpose of establishing the influence of various testing methods on the variation in the value of the shear strength of loess-type soils with a disturbed internal structure and various particle-size composition. The values of the shear strength of the soil were determined by the direct-shear method under conditions of complete and incomplete consolidation of the soils under a load. In addition, tests were performed for the separate determination of the cohesion forces by means of shear in the absence of a normal pressure and by means of the unconfined compressive-failure method. A study was made of the influence of the load intensity and the shear-deformation rate. As a result of the numerous tests performed it is established that: 1) there is a

Card 1/2

SOV/124-58-2-2203

Investigation of the Shear Strength of Loess-type Soils With a Disturbed Texture

relationship between the shear strength and the test methods employed, since there occur nonuniform changes in the density and moisture content of the specimen at various stages of an experiment; 2) there are advantages in conducting tests with ovoidal specimens with respect both to the deformation behavior and to the more favorable performance of the specimen under load. In conjunction therewith the author notes a number of unfavorable phenomena related to the determination of the shear resistivity of a soil with preconsolidation of the specimen. The author recommends that tests be conducted under conditions of complete or incomplete consolidation of specimens under a load.

Z. B. Maslova

Card 2/2

14(6)

SOV/112-59-1-459

Translation from: Referativnyy zhurnal. Elektrotekhnika, 1959, Nr 1, p 61 (USSR)

AUTHOR: Shul'gina, V. P., and Chakhvadze, G. Z.

TITLE: Use of Gypsum-Containing Soils in Hydraulic Structures

PERIODICAL: Tr. Sredneaz. n.-i. in-ta irrigatsii, 1957, Nr 90, pp 123-132

ABSTRACT: Results of laboratory and field investigations of borrow soils placed and roller-compacted in the body of the Kuyu-Mazar reservoir dam showed that such soils have characteristics (seepage coefficient, setting modulus, etc.) not inferior to those of nongypsum soils. Washing gypsum ($\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$) out of the placed soil proved to be a slow process; it can be accelerated by raising the volumetric weight, by making the slopes a bit easier, and by ensuring normal functioning of draining devices. The investigations revealed that the presence of up to 20% of gypsum in the soil cannot be regarded as an obstacle in using such soil for hydraulic structures. Bibliography: 8 items.

N.M.S.

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pp 54-55 (USSR)

AUTHOR: Chakhvadze, G. Z.

TITLE: Cohesion Forces in Loesslike Soils
(O silakh stsepleniya v lessovidnykh gruntakh)

PERIODICAL: Tr. Sredneaz. n.-i. in-ta irrigatsii, 1957, Nr 90, pp. 143-153

ABSTRACT: Bond among the particles of argillaceous soils can manifest itself as a shearing cohesion or as a breaking cohesion. These characteristics have been investigated on powdery loess loam and dustlike clay by means of the MLS-46 Mosgidep instrument under conditions of absence of normal pressure (P. F. Saverenskiy's method) and under incomplete-soil-compaction conditions (N. N. Maslov's method). The investigations have shown that the relation between the shearing cohesion and the breaking cohesion depends both on the methods of their determination and on the composition and moisture content of

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the soil. Increase in the clay-fraction content and moisture content results in a sharp increase in the breaking cohesion as compared with the shearing cohesion. Decreasing the moisture content toward the lower limit of plasticity results, in the loesslike soils, in equality between the values of cohesion for breaking and for shearing if the latter is determined by N. N. Maslov's method. It is recommended that the soil-breaking resistance be determined by a SANIIRI instrument which permits changing the physical state of the samples and determining the effect of moisture content on the breaking cohesion. A detailed description of the apparatus and methods of testing is presented.

M.B.G.

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Physical and mechanical properties of soils composing the slopes
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